Sensitive Information Detection System (As a part of ACTS Management System)

**Functional Requirement Specification Document**

**23-07-2021**

**Functional Requirements Document**

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| **Name of Document** | Using Machine learning to detect sensitive information in a document |
| **Author** |  |
| **Description of Content** | A sensitive information detection system is a software solution designed to identify and protect sensitive or confidential data within an organization's digital environment. These systems typically employ various techniques to detect sensitive information, such as personally identifiable information (PII), financial data, intellectual property, and other proprietary information.  Implementing a sensitive information detection system is crucial for organizations aiming to protect their sensitive data from unauthorized access, breaches, or accidental exposure. It helps maintain trust with customers, partners, and regulatory bodies by demonstrating a commitment to data privacy and security. |
| **Reference** | 1. [**https://blog.developer.adobe.com/using-machine-learning-to-help-detect-**](https://blog.developer.adobe.com/using-machine-learning-to-help-detect-sensitive-information-5bfb32eeb34e)[**sensitive-information-5bfb32eeb34e**](https://blog.developer.adobe.com/using-machine-learning-to-help-detect-sensitive-information-5bfb32eeb34e) 2. **Reseachgate papers** |
| **Approved by** |  |
| **Date of Approval** |  |

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Functional Requirements, UAN Allotment System

# INTRODUCTION

As a large, global organization with thousands of employees, Banks create and exchanges countless documents every day. These documents can range from less sensitive content drafts and proposals to highly sensitive documents, such as job offers or API documentation. With the potential risk of data exfiltration, it’s important to try and ensure that sensitive information found in these documents are not accessed by unauthorized users. Even a small number of files may cause an issue if they inadvertently fall into the wrong hands.

## Purpose

The purpose of this document is to give a detailed description of the requirements for Sensitive Information Detection System

. It shall illustrate the purpose and complete declaration for the development of the system. It shall explain System Constraints, Interfaces and Interactions with other External Applications. This document is primarily intended for customer for its functional requirements approval and a reference for development team.

The FRS document provides a detailed overview of the System, its parameters and goals. It describes the System’s target audience and its user interface. It defines how our client, team and audience will see the product and its functionality. Nonetheless, it helps designer and developer to assist in Software Delivery Life Cycle (SDLC) processes.

## Background

Articulating the importance of the "Sensitive Information Detection System" centers around its critical role in compliance, risk mitigation, operational efficiency, data protection, business continuity, reputation management, and strategic advantage. Clearly defining these points not only justifies the project's significance but also aligns stakeholders on its objectives and expected outcomes. This understanding is essential for garnering support, securing resources, and ensuring successful implementation and adoption of the system within the organization .

## Scope

Defining the scope of the "Sensitive Information Detection System" project ensures clarity and alignment among stakeholders regarding what will be delivered, how it will be accomplished, and the boundaries within which the project will operate. It helps manage expectations, allocate resources effectively, and ensure successful implementation of the system to enhance data security and compliance within the organization .

***Figure 1: System Architecture***

## References

a) <https://blog.developer.adobe.com/using-machine-learning-to-help-detect-sensitive-information-5bfb32eeb34e> (by - Renae Kang)

## Document Overview

This document gives an overview of the Using Machine learning to detect sensitive information in a document ; its interactions and functionality. It also describes the type of stakeholders that use the system and what functionalities are available for each type. The following FRS contains the details of sensitive information in a given document. It provides the detailed functions of Machine Learning Algorithm with permitted Constraints, Assumptions, Dependencies and Requirements subsets.

Using Machine learning to detect sensitive information in a document .

List the functionalities of the system.

* 1. **Functionality 1**

## Description

Explain about what is this functionality 1 meant for.

## Functional Requirements Identified

|  |  |  |  |
| --- | --- | --- | --- |
| **Functionality 1** | | | |
| **SN.** | **Functionality** | **Process** | **Remarks/ Additional Info** |
| FR 1.1 | Requirement 1  (Example “Recording QR Scan data”) | **Step by step process** | Additional information if any |
| FR1.2 | Requirement 2 |  |  |

* + 1. **Fields Validations**

This table lists the various fields that will be there in the form for the requirement

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S N** | **Field Name** | **Field Description** | **Validations** | **Remarks** |
| 1 | Name of field | Field description | * Validations | Mandatory/non mandatory |

Any prerequisite is there or any dependency. (Example user data should be uploaded or PRN should be generated)

# 3 External Interfaces

Explain if any external interface is to be connected like redirection to some other portal or information fetch from some other portal.